

Work Order ID 153219

Thursday, November 10, 2016 3:27:20 PM

153219

Page 1

Item ID: D145-762-015 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Skidtube, Std Wearplates, DART (Apical) Tri-Bag Float Compatible, Fits LH or RH
Start Date: 11/14/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 12/1/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: VS (Signature) Date: 16/10/10 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
IIN-D117-762	E

DAS
6
9-89
NOV 15 2016

100
100
DC DOCUMENT CONTROL
Memo 0.00
Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPP D145-762-015 CHG002

DAS
27
9-89

110
110
Packaging Pick Kit 0.00
Packaging Memo 0.00

DAS
6
9-89

NOV 18 2016
DAS
28
9-89

120
120
QC QC4- 100% Inspect kits for completeness 0.00
Quality Control Memo 0.00

DAS
27
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Work Order ID 153219

Thursday, November 10, 2016 3:27:20 PM

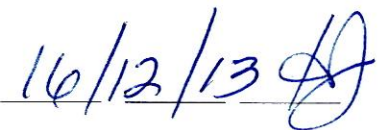
153219

Page 2

Item ID: D145-762-015 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Skidtube, Std Wearplates, DART (Apical) Tri-Bag Float Compatible, Fits LH or RH
Start Date: 11/14/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 12/1/2016 Req'd Qty: 1.00 ***1*** Customer:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D145-762-015 Location: <u>fg 074</u>								
						DAS 28 9-89	DAS 27 9-89		
						DEC 12 2016			
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

16/12/13 

 16-12-13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Thursday, November 10, 2016 3:27:33 PM

Page 1

Work Order ID: 153219

153219

Parent Item: D145-762-015

D145-762-015

Parent Item Name: Skidtube, Std Wearplates, DART (Apical) Tri-Bag Float Compatible, Fits LH or RH

Start Date: 11/14/2016

Required Date: 12/1/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 13.04.24 NEW ISSUE DD VERF:JLM IPP
REV:B 16.02.05 IIN REV.E (ecn16-514) DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D145-762-045		Manufactured	No				Each	0.0000		1			
• *D145-762-045*									**	153221		DAS 6 9-89	NOV 14 2016 18 89
Replacement Float Skidtube													
D145-762-055		Manufactured	No			110	Each	0.0000	1	1			
• *D145-762-055*									**	153223		DAS 6 9-89	NOV 14 2016 18 89
Repl. Wearplates for Skid tubes, DART (Apical) Tri-Bag Float Comp., Fits LH or RH													
AN6C52A		Purchased	No				Each	27.0000		2			
AN6C52A									**			DAS 6 9-89	NOV 22 2016 18 89
BOLT													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST333				27					
				m134535				27					
D5300-1		Manufactured	No				Each	10.0000		2			
D5300-1									**			DAS 6 9-89	NOV 22 2016 18 89
GHL Bushing													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST163				10					
				141838				10					
D5301-1		Manufactured	No				Each	8.0000		2			
D5301-1									**			DAS 6 9-89	NOV 22 2016 18 89
GHL Plug													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST163				8					
				141839				8					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
2017-03-01 2017-03-01 2017-03-01 2017-03-01				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Thursday, November 10, 2016 3:27:33 PM

Page 2

Work Order ID: 153219

153219

Parent Item: D145-762-015

D145-762-015

Parent Item Name: Skidtube, Std Wearplates, DART (Apical) Tri-Bag Float Compatible, Fits LH or RH

Start Date: 11/14/2016

Required Date: 12/1/2016

MS21043-6

Purchased

No

Each

Start Qty: 1.00
105.0000

2

Required Qty: 1.00

MS21043-6

NUT

NOV 22 2016

DAS DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FG	20	
103693	20	
FP001	2	
m135603	2	
ST302	83	
m134817	28	
m135470	30	
m136047	25	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

5.3 D145-762-015/-115 Skidtube Parts List

Item	Qty -015	Qty -045	Qty -055	Qty -115	Qty -155	Part Number	Description
	X					D145-762-015	FLOAT SKIDTUBE WITH STD WEARPLATES
	1	X		1		D145-762-045	REPLACEMENT FLOAT SKIDTUBE
	1		X			D145-762-055	REPLACEMENT WEARPLATES (FLOAT SKIDTUBES)
				X		D145-762-115	FLOAT SKIDTUBE WITH TRAINING WEARPLATES
				1	X	D145-762-155	REPLACEMENT TRAINING WEARPLATES (FLOAT SKIDTUBE)
201		1				D4766-041	SKIDTUBE ASSEMBLY
202	2			2		**L321M1024101 OR **B321M1026101	SKID SHOE (REF ONLY)
203	8			8		**BRSP96/25-SK-W5-1 TEILIG OR **BRSP98/25-SK-W5-1 TEILIG OR **01618266098	CLAMP (REF ONLY)
204	8			8		**N/A	OEM BOLT (REF ONLY)
205	8			8		**N/A	OEM LOCKING WASHER (REF ONLY)
206	8			8		**N/A	OEM WASHER (REF ONLY)
210A		1				*D2965	CAP
210B		1				*D2965-3	CAP
211		4				***AELS-1032-225	INSERT
212		2				*AN3C5A	BOLT
213		2				*NAS1149C0332R	WASHER (OR AN960C10L)
214		2				*AN526C1032	SCREW
220A			1			D4682-041	WEARPLATE
220B			1			D4682-045	WEARPLATE
220C			1			D4682-11	WEARPLATE
221A					1	D4769-041	WEARPLATE
221B					1	D4772-041	WEARPLATE
221C					1	D4771-041	WEARPLATE
222			6		6	D4764-1	BUSHING
223			12		12	D4764-5	BUSHING
224			1		1	AN4C42A	BOLT
225			2		2	AN4C43A	BOLT
226			2		2	AN6C44A	BOLT
227			4		4	AN6C45A	BOLT
228			3		3	MS21043-4	NUT
229			6		6	MS21043-6	NUT
230		3				*AELS-1032-130	INSERT
231		3				*AN3C4A	BOLT
232		3				*NAS1149C0332R	WASHER (OR AN960C10L)
250	2			2		AN6C52A	BOLT
251	2			2		D5300-1	GHL BUSHING
252	2			2		D5301-1	GHL PLUG
253	2			2		MS21043-6	NUT

* PART IS INCLUDED WITH D4766-041 STD SKIDTUBE ASSEMBLY

** TO BE SUPPLIED BY CUSTOMER, LISTED AS REFERENCE ONLY

*** DENOTES PART IS INCLUDED WITH ASSEMBLY ABOVE

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Revision: E

Date: 15.08.25

REFERENCE ONLY

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTION IIN-D117-762 REV. E AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D117-762 REV. 4

REF FAA STC: SR01853SE

REF: TCCA LETTER OF ACCEPTANCE RDIMS-4374899

REF EASA STC: 10017063

PURPOSE:

The purpose of this service instruction is to correct a typographical error in section 5.3 (pg. 23) of IIN-D117-762 Rev E and section 32.21 (pg. 35) of ICA-D117-762 Rev. 4.

CHANGE:

The parts list in section 5.3 (pg. 23) of IIN-D117-762 Rev. E and section 32.21 (pg. 35) of ICA-D117-762 Rev. 4 is modified as shown below:

ITEM	Qty -015	Qty -045	Qty -055	Qty -115	Qty -155	PART NUMBER	DESCRIPTION
			X			D145-762-055	REPLACEMENT WEARPLATES (FLOAT SKIDTUBE)

ش

[illegible]

WAS:

[illegible]

WEIGHT AND BALANCE:

There is no weight and balance change associated with this service instruction.

A	NEW ISSUE	DESCRIPTION		SAD	BY	DATE
REV.						
DESIGN	SAD	DART AEROSPACE USA, INC EUGENE, OR DRAWING NO. DSI 9742 REV. A SHEET 1 OF 1 SCALE PARTS LIST CORRECTION NTS				
DRAWN	SAD					
CHECKED	<i>CS</i>					
MFG. APPR.	N/A					
APPROVED	<i>CS</i>					
DE APPR.	<i>CS</i>					
DATE	16.03.24					

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Work Order ID 153219

Tuesday, November 15, 2016 9:17:22 AM

153219

Page 1

Item ID: D145-762-015**Accept*****N900040100*****Setup Start *NS1*****Revision ID:****Stop *NS2*****Item Name:** Skidtube, Std Wearplates, DART (Apical) Tri-Bag Float Compatible, Fits LH or RH**Start Date:** 11/14/2016 **Start Qty:** 1.00 ***1*****Cust Item ID:****Required Date:** 12/1/2016 **Req'd Qty:** 1.00 ***1*****Customer:****Reference:****Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____**Run Start *NR1*****QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____**Stop *NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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IIN-D117-762

E

DAS
21
9-89

NOV 15 2016

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP D145-762-015 CHG002

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control